

Abstract

5 A multi-function air treatment apparatus includes a photo-ionizing assembly and a negative ion generator. The photo-ionizing assembly emits a predetermined wavelength of light that produces ozone when it impinges upon air. When a portion of the light impinges on a target material, radicals and ions that bond with and reduce some of volatile organic compounds in the air are produced. The negative ion generator produces negative ions and a radiating negative electrostatic field from an outer high dielectric surface by an electrical charge applied to an enclosed conductive inner surface.

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